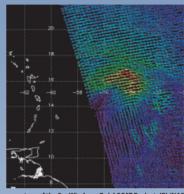
## Wind — Cloud Top and Sea Surface Wind Vectors

Terra/MISR and QuikSCAT/SeaWinds Overpasses of Hurricane Debby on August 21, 2000

# Visible Cloud Top Heights Cloud Top Winds Radiances

**SeaWinds** Sea Surface Wind Vectors

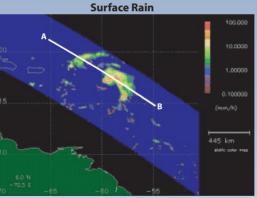


Cloud top heights and winds from MISR can be combined with sea surface wind vectors from SeaWinds to produce a multilayer view of horizontal wind fields.

### Precipitation — Surface and Vertical Profiles

TRMM Microwave Imager (TMI) views of Hurricane Debby on August 22, 2000

**TMI-derived** precipitation rates and vertical profiles of ice and liquid water can be tied to the transfer and release of energy within storms.



The white line locates the vertical profiles

#### Vertical **Profiles**



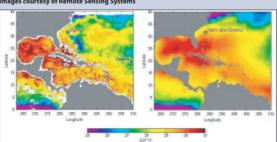
Liquid Water

Images created with the TSDIS Orbit Viewer

## Temperature — Sea Surface

TMI vs. Reynolds views of Hurricanes Bonnie and Danielle in late August 1998

Images courtesy of Remote Sensing Systems



Through cloud cover, TMI detects the cooler water in Bonnie's wake (left image) that was missed by AVHRR IR used in Reynolds Weekly SST (right image).



Hurricane Danielle weakened when it hit the cooler water (shown in blue) upwelling in Bonnie's wake.

